



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

JJGJR: 09-07

Paper No: \_\_

**COPY MAILED**

**SEP 27 2007**

**OFFICE OF PETITIONS**

TEXAS INSTRUMENTS INCORPORATED  
P O BOX 655474, M/S 3999  
DALLAS TX 75265

In re Application of :  
Houston : DECISION  
Application No.: 10/664,547 :  
Filing Date: 19 September, 2003 :  
Attorney Docket No. TI-32205.1 :  
)

This is a decision on the petition filed on 26 October, 2006, supplemented on 24 September, 2007, and considered as a request to withdraw the holding of abandonment under 37 C.F.R. §1.181.

The Office regrets the delay in addressing this matter, however, the instant petition was presented to the attorneys in the Office of Petitions only at this writing.<sup>1</sup>

The petition as considered under 37 C.F.R. §1.181 is **GRANTED**.

**BACKGROUND**

The record reflects that:

- Petitioner failed to reply timely and properly to final Office action (copy enclosed) mailed on 24 March, 2006, with reply due absent extension of time on or before 24 June, 2006;

---

<sup>1</sup> **NOTE:** Monitoring of the status of applications on PAIR can inform one's management of application responses and provide an indication when mailings of Office actions should be expected. Status Inquiries filed at three (3) or four (4) month intervals provide a demonstration of diligence and attention in supporting a petition seeking relief under 37 C.F.R. §1.181.

- the application went abandoned by operation of law after midnight 24 June, 2006;
- the Office mailed a Notice of Abandonment on 6 October, 2006;
- on 26 October, 2006, Petitioner filed the instant petition with, *inter alia*, an averment that she did not receive a copy of the final Office action—and made the statements and provided documents required (see the Manual of Patent Examining Procedure provisions discussed below) in support thereof, and Petitioner supplemented her petition on 24 September, 2007, to detail for the Office how her docketing system operates and that one of the documents discussed in the Commentary of the Manual of Patent Examining Procedure (as set forth below) does not exist in her docketing system but that she had a colleague who is experienced with the docketing software generate an equivalent of the document to evidence that the instant application did not have a due date in Petitioner's docket system on the date in question;

On 26 October, 2006, Petitioner also filed a reply to the Office action in question in the form of a request for continued examination (RCE) and fee and an amendment as the submission under 37 C.F.R. §1.114.

Notably, the availability of applications and application papers online to applicants/practitioners who diligently associate their Customer Number with the respective application(s) now provides an applicant/practitioner immediate and on-demand information as to events/transactions in an application. Thus, now if one wishes to know the progress in and/or status of an application or the accuracy of the data therein, one need only look at the file online.

Out of an abundance of caution, Petitioners always are reminded that the filing of a petition under 37 C.F.R. §1.181 does not toll any periods that may be running as to any action by the Office and a petition seeking relief under the regulation must be filed within two (2) months of the act complained of (see: 37 C.F.R. §1.181(f)); and those registered to practice *and* all others who make representations before the Office must inquire into the underlying facts of representations made to the Office and support averments with the appropriate documentation—since all owe to the Office the continuing duty to disclose.<sup>2</sup>

---

<sup>2</sup> See supplement of 17 June, 1999. The Patent and Trademark Office is relying on petitioner's duty of candor and good faith and accepting a statement made by Petitioner. See Changes to Patent Practice and Procedure, 62 Fed. Reg. at 53160 and 53178, 1203 Off. Gaz. Pat. Office at 88 and 103 (responses to comments 64 and 109)(applicant obligated under 37 C.F.R. §10.18 to inquire into the underlying facts and circumstances when providing statements to the Patent and Trademark Office).

Specifically, the regulations at 37 C.F.R. §10.18 provide:

**§ 10.18 Signature and certificate for correspondence filed in the Patent and Trademark Office.**

- (a) For all documents filed in the Office in patent, trademark, and other non-patent matters, except for correspondence that is required to be signed by the applicant or party, each piece of correspondence filed by a practitioner in the Patent and Trademark Office must bear a signature by such practitioner complying with the provisions of §1.4(d), §1.4(e), or § 2.193(c)(1) of this chapter.
- (b) By presenting to the Office (whether by signing, filing, submitting, or later advocating) any paper, the party presenting such paper, whether a

### STATUTES, REGULATIONS AND ANALYSIS

Congress has authorized the Commissioner to "revive an application if the delay is shown to the satisfaction of the Commissioner to have been "unavoidable." 35 U.S.C. §133 (1994).<sup>3</sup>

The regulations at 37 C.F.R. §1.137(a) and (b) set forth the requirements for a petitioner to revive a previously unavoidably or unintentionally, respectively, abandoned application under this congressional grant of authority. The language of 35 U.S.C. §133 and 37 C.F.R. §1.137(a) is clear, unambiguous, and without qualification: the delay in tendering the reply to the outstanding Office action, as well as filing the first petition seeking revival, must have been unavoidable for the reply now to be accepted on petition.<sup>4</sup>

practitioner or non-practitioner, is certifying that—

(1) All statements made therein of the party's own knowledge are true, all statements made therein on information and belief are believed to be true, and all statements made therein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom; and

(2) To the best of the party's knowledge, information and belief, formed after an inquiry reasonable under the circumstances, that —

(i) The paper is not being presented for any improper purpose, such as to harass someone or to cause unnecessary delay or needless increase in the cost of prosecution before the Office;

(ii) The claims and other legal contentions therein are warranted by existing law or by a nonfrivolous argument for the extension, modification, or reversal of existing law or the establishment of new law;

(iii) The allegations and other factual contentions have evidentiary support or, if specifically so identified, are likely to have evidentiary support after a reasonable opportunity for further investigation or discovery; and

(iv) The denials of factual contentions are warranted on the evidence, or if specifically so identified, are reasonably based on a lack of information or belief.

(c) Violations of paragraph (b)(1) of this section by a practitioner or non-practitioner may jeopardize the validity of the application or document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom. Violations of any of paragraphs (b)(2)(i) through (iv) of this section are, after notice and reasonable opportunity to respond, subject to such sanctions as deemed appropriate by the Commissioner, or the Commissioner's designee, which may include, but are not limited to, any combination of —

(1) Holding certain facts to have been established;

(2) Returning papers;

(3) Precluding a party from filing a paper, or presenting or contesting an issue;

(4) Imposing a monetary sanction;

(5) Requiring a terminal disclaimer for the period of the delay; or

(6) Terminating the proceedings in the Patent and Trademark Office.

(d) Any practitioner violating the provisions of this section may also be subject to disciplinary action. See § 10.23(c)(15).

[Added 50 FR 5175, Feb. 6, 1985, effective Mar. 8, 1985; para. (a) revised, 58 FR 54494, Oct. 22, 1993, effective Nov. 22, 1993; paras. (a) & (b) revised, paras. (c) & (d) added, 62 FR 53131, Oct. 10, 1997, effective Dec. 1, 1997; para. (a) revised, 69 FR 56481, Sept. 21, 2004, effective Oct. 21, 2004]

<sup>3</sup> 35 U.S.C. §133 provides:

**35 U.S.C. §133 Time for prosecuting application.**

Upon failure of the applicant to prosecute the application within six months after any action therein, of which notice has been given or mailed to the applicant, or within such shorter time, not less than thirty days, as fixed by the Commissioner in such action, the application shall be regarded as abandoned by the parties thereto, unless it be shown to the satisfaction of the Commissioner that such delay was unavoidable.

<sup>4</sup> Therefore, by example, an unavoidable delay in the payment of the Filing Fee might occur if a reply is shipped by the US Postal Service, but due to catastrophic accident, the delivery is not made.

Delays in responding properly raise the question whether delays are unavoidable.<sup>5</sup> Where there is a question whether the delay was unavoidable, Petitioners must meet the burden of establishing that the delay was unavoidable within the meaning of 35 U.S.C. §133 and 37 C.F.R. §1.137(a).<sup>6</sup>

And the Petitioner must be diligent in attending to the matter.<sup>7</sup> Failure to do so does not constitute the care required under Pratt, and so cannot satisfy the test for diligence and due care.

(By contrast, unintentional delays are those that do not satisfy the very strict statutory and regulatory requirements of unavoidable delay, and also, by definition, are not intentional.<sup>8</sup>)

#### Allegations as to the Request to Withdraw the Holding of Abandonment

The courts have determined the construct for properly supporting a petition seeking withdrawal of a holding of abandonment.<sup>9</sup>

The commentary at MPEP §711.03(c) provides:

\* \* \*

#### **A. Petition To Withdraw Holding of Abandonment Based on Failure To Receive Office Action**

In *Delgar v. Schulyer*, 172 USPQ 513 (D.D.C. 1971), the court decided that the Office should mail a new Notice of Allowance in view of the evidence presented in support of the contention that the applicant's representative did not receive the original Notice of Allowance. Under the reasoning of *Delgar*, an allegation that an Office action was never received may be considered in a petition to withdraw the holding of abandonment. If adequately supported, the Office may grant the petition to withdraw the holding of abandonment and remail the Office action. That is, the reasoning of *Delgar* is applicable regardless of whether an application

<sup>5</sup> See: *Changes to Patent Practice and Procedure; Final Rule Notice*, 62 Fed. Reg. at 53158-59 (October 10, 1997), 1203 Off. Gaz. Pat. Office at 86-87 (October 21, 1997).

<sup>6</sup> See: *In re Application of G*, 11 USPQ2d 1378, 1380 (Comm'r Pats. 1989).

<sup>7</sup> See: *Diligence in Filing Petitions to Revive and Petitions to Withdraw the Holding of Abandonment*, 1124 Off. Gaz. Pat. Office 33 (March 19, 1991). It was and is Petitioner's burden to exercise diligence in seeking either to have the holding of abandonment withdrawn or the application revived. See 1124 Off. Gaz. Pat. Office *supra*.

<sup>8</sup> Therefore, by example, an unintentional delay in the reply might occur if the reply and transmittal form are to be prepared for shipment by the US Postal Service, but other pressing matters distract one's attention and the mail is not timely deposited for shipment.

<sup>9</sup> See: *Delgar v. Schulyer*, 172 USPQ 513 (D.D.C. 1971).

is held abandoned for failure to timely pay the issue fee ( 35 U.S.C. 151) or for failure to prosecute ( 35 U.S.C. 133). To minimize costs and burdens to practitioners and the Office, the Office has modified the showing required to establish nonreceipt of an Office action. The showing required to establish nonreceipt of an Office communication must include a statement from the practitioner stating that the Office communication was not received by the practitioner and attesting to the fact that a search of the file jacket and docket records indicates that the Office communication was not received. A copy of the docket record where the nonreceived Office communication would have been entered had it been received and docketed must be attached to and referenced in practitioner's statement. For example, if a three month period for reply was set in the nonreceived Office action, a copy of the docket report showing all replies docketed for a date three months from the mail date of the nonreceived Office action must be submitted as documentary proof of nonreceipt of the Office action.

\* \* \*

The showing outlined above may not be sufficient if there are circumstances that point to a conclusion that the Office action may have been lost after receipt rather than a conclusion that the Office action was lost in the mail (e.g., if the practitioner has a history of not receiving Office actions).

Evidence of nonreceipt of an Office communication or action (e.g., Notice of Abandonment or an advisory action) other than that action to which reply was required to avoid abandonment would not warrant withdrawal of the holding of abandonment. Abandonment takes place by operation of law for failure to reply to an Office action or timely pay the issue fee, not by operation of the mailing of a Notice of Abandonment. See *Lorenz v. Finkl*, 333 F.2d 885, 889-90, 142 USPQ 26, 29-30 (CCPA 1964); *Krahn v. Commissioner*, 15 USPQ2d 1823, 1824 (E.D. Va 1990); *In re Application of Fischer*, 6 USPQ2d 1573, 1574 (Comm'r Pat. 1988). (Emphasis supplied.)

\* \* \*

Moreover, the regulation places upon Petitioner a diligence requirement to seek relief within two (2) months of the act complained of.

It appears that Petitioner has satisfied the showing as discussed above.

CONCLUSION

The petition as considered under 37 C.F.R. §1.181 is granted, and the 6 October, 2006, Notice of Abandonment is vacated.

*2800*  
The instant application is released to Technology Center for further processing in due course.

While telephone inquiries regarding this decision may be directed to the undersigned at (571) 272-3214, it is noted that all practice before the Office is in writing (see: 37 C.F.R. §1.2<sup>10</sup>) and the proper authority for action on any matter in this regard are the statutes (35 U.S.C.), regulations (37 C.F.R.) and the commentary on policy (MPEP). Therefore, no telephone discussion may be controlling or considered authority for Petitioner's action(s).

  
John J. Gilton, Jr.  
Senior Attorney  
Office of Petitions

---

<sup>10</sup> The regulations at 37 C.F.R. §1.2 provide:

**§1.2 Business to be transacted in writing.**

All business with the Patent and Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.



# UNITED STATES PATENT AND TRADEMARK OFFICE

DELR  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,547	09/19/2003	Theodore W. Houston	TI-32205.1	4290
23494	7590	03/27/2006	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			LEWIS, MONICA	
			ART UNIT	PAPER NUMBER
			2822	
DATE MAILED: 03/27/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/664,547	HOUSTON, THEODORE W.	
	Examiner Monica Lewis	Art Unit 2822	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 09 January 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 49-53 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 49-53 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 21 December 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

## **DETAILED ACTION**

1. This office action is in response to the amendment filed January 9, 2006.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 49-53 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 49-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Turner (U.S. Patent No. 5,357,132).

In regards to claim 49, Houston et al. ("Houston") discloses the following:

- a) a dielectric layer (48) disposed between a substrate and a first metal layer (68) (For Example: See Figure 9);
- b) a trench defined by a recess in the dielectric layer (For Example: See Figure 9);
- c) a first contact pillar (64) extending substantially from a top surface of the substrate to a bottom surface of the first metal layer (68) within the trench (For Example: See Figure 9); and
- d) a capacitor formed in the trench overlying the first contact pillar such that the capacitor is formed at least in part on a side of the first contact pillar, and the first contact pillar is a plate of the capacitor (For Example: See Column 6 Lines 46-50).

Art Unit: 2822

In regards to claim 50, Houston discloses the following:

a) a second contact pillar (62) extending substantially from a top surface of the substrate to a bottom surface of another portion of the first metal layer wherein the second contact pillar is substantially the same height as the first contact pillar (For Example: See Figure 9).

In regards to claim 51, Houston discloses the following:

a) the capacitor comprises a storage element of a memory cell (For Example: See Column 1 Lines 15-25).

In regards to claim 52, Houston discloses the following:

a) a storage node of the storage element comprises a first contact pillar (For Example: See Abstract).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 53 is rejected under 35 U.S.C. 103(a) as obvious over Turner (U.S. Patent No. 5,357,132) in view of Chen et al. (U.S. Patent No. 6,093,600) and Fisher et al. (U.S. Patent No. 5,962,885).

In regards to claim 53, Houston fails to disclose the following:

a) a storage node further comprises a conducting layer lining the trench and the side of the first contact pillar.

However, Fisher et al. ("Fisher") discloses the use of a storage node further that comprises a conducting layer (80) lining the trench and the side of the first contact pillar (70) (For Example: See Figure 6). It would have been obvious to one having ordinary skill in the art

Art Unit: 2822

at the time the invention was made to modify the semiconductor device of Houston to include storage node that comprises a conducting layer lining the trench and the side of the first contact pillar as disclosed in Fisher because it aids in increasing capacitance (For Example: See Column 1 Lines 51 and 52).

Additionally, since Houston and Fisher are both from the same field of endeavor (semiconductors), the purpose disclosed by Fisher would have been recognized in the pertinent art of Houston.

***Conclusion***

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2822

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica Lewis whose telephone number is 571-272-1838. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300 for regular and after final communications.

ML  
March 16, 2006



Mary Wilczewski  
Primary Examiner